AMERICAN JOURNAL OF MATHEMATICS

Founded in 1878 by The Johns Hopkins University

INDEX TO VOLUME 115 1993

PAGE

BALAJI, V. and P. A. VISHWANATH. On the deformations of certain moduli spaces of vector bundles 279

BALLICO, E. On meromorphic vector fields on projective spaces..... 1135

BASMAJIAN, ARA. The orthogonal spectrum of a hyperbolic manifold 1139

BUIUM, ALEXANDRU. Geometry of differential polynomial functions, I: Algebraic groups 1385

CANO, FELIPE. Reduction of the singularities of non-dicritical singular foliations 509

CHARNEY, RUTH and MICHAEL DAVIS. Singular metrics of nonpositive curvature on branched covers of Riemannian manifolds..... 929

CIRIZA, ELEONORA. The local structure of a Liouville vector field 735

CITTI, GIOVANNA, NICOLA GAROFALO, and ERMANNO LANCONELLI. Harnack's inequality for sum of squares of vector fields plus a potential 699

COHEN, F. R. On the mapping class groups for punctured spheres, the hyperelliptic mapping class groups, $SO(3)$ and $\mathrm{Spin}^c(3)$..... 389

COIFMAN, R. R. and S. SEMMES. Interpolation of Banach Spaces, Perron processes and Yang-Mills..... 243

COLUMBINI, FERRUCCIO, DANIELLE DEL SANTO, and CLAUDE ZUILY. Uniqueness and nonuniqueness in the Cauchy problem for degenerate elliptic operators 1281

COOPER, D. and D. D. LONG. Derivative varieties and the pure braid group 137

CUTKOSKY, STEVEN DALE and HEMA SRINIVASAN. An intrinsic criterion for isomorphism of singularities..... 789

R. DAVIDSON, KENNETH and NORBERTO SALINAS. Joint quasitriangularity of essentially unitary pairs 861

DIBENEDETTO, E. and J. MANFREDI. On the higher integrability of the gradient of weak solutions of certain degenerate elliptic systems 1107

DYAKONOV, KONSTANTIN. Division and multiplication by inner functions and embedding theorems for star-invariant subspaces 881

FURUSAWA, MASAAKI. On Fourier coefficients of Einstein series on $SO(5,2)$... 823

GARFINKLE, DEVRA. The annihilators of irreducible Harish-Chandra modules for $\mathrm{SU}(p,q)$ and other type A_{n-1} groups 305

GARRETT, PAUL and MICHAEL HARRIS. Special values of triple product L-functions 161

HALES, THOMAS C. Unipotent representations and unipotent classes in $SL(n)$... 1347

HARBATER, DAVID. Formal patching and adding branch points 487

HENN, HANS-WERNER, JEAN LANNES, and LIONEL SCHWARTZ. The categories of unstable modules and unstable algebras over the Steenrod algebra modulo nilpotent objects 1053

HICKEL, M. Fonction de Artin et germes de courbes tracées sur un germe d'espace analytique 1299

HÜBL, REINHOLD and PRAMATHANATH SASTRY. Regular differential forms and relative duality 749

JECH, THOMAS and SAHARON SELAH. Full reflection of stationary sets at regular cardinals 435

JOST, JÜRGEN and SHING-TUNG YAU. Harmonic mappings and algebraic varieties over function fields 1197

LEE, RONNIE and STEVEN H. WEINTRAUB. The "coadjoint" representation of $PSp_4(\mathbb{Z}/2)$ 109

LIPSHITZ, L. Rigid analytic sets 77

MCCLURE, J. E. and R. E. STAFFELDT. On the topological Hochschild homology of *bu*, I 1

NAGEL, ALEXANDER, ANDREAS SEEGER, and STEPHEN WAINGER. Averages over convex hypersurfaces 903

NAKAMURA, GEN and GUNTHAR UHLMANN. Identification of Lamé parameters by boundary measurements 1161

OTSU, YUKIO. On manifolds of small excess 1229

SALVATI MANNI, RICCARDO and JAAP TOP. Cusp forms of the weight 2 for the group $\Gamma_2(4, 8)$ 455

SHIMURA, GORO. On the transformation formulas of theta series 1011

SIMIS, ARON, BERND ULRICH, and WOLMER V. VASCONCELOS. Jacobian dual fibrations 47

STADE, ERIC. Hypergeometric series and Euler factors at infinity for L-functions on $GL(3, \mathbf{R}) \times GL(3, \mathbf{R})$ 371

VEECH, WILLIAM A. Flat surfaces 589

WALSCHAP, GERARD. Foliations of symmetric spaces 1189

WATERHOUSE, WILLIAM C. Automorphism group schemes of semisimple cosemisimple Hopf algebras 691

YAKUBOVICH, D. V. Spectral multiplicity of Toeplitz operators with smooth symbols 1335